

### **In the Specification**

**Please replace the second paragraph on page 4 with the following:**

Fig. 2 represents alignment of the sequences of TWIK-1 (SEQ ID No.: 3), TREK-1 (SEQ ID No.: 4), TASK(SEQ ID No.: 5) and TRAAK(SEQ ID No.: 1) which are four channels of the TWIK type presently cloned in mammals as well as deduced dendrogram of this alignment.

**Please replace the first paragraph on page 7 with the following:**

Another nucleic acid sequence according to the invention comprising at least one sequence coding for the protein constituting the TREK-1 channel which has the amino acid sequence represented in the attached sequence list as SEQ ID No: 2-4 or for a functionally equivalent derivative of this protein. A DNA molecule comprising the sequence coding for the TREK-1 protein is represented in the attached sequence list as SEQ ID No:2-4 or its complementary sequence. More specifically, such an amino acid sequence comprises the sequence between nucleotides 484 and 1596 of SEQ ID No:2-4.

**Please replace the third paragraph on page 10 with the following:**

Fig. 2 represents alignment of the sequences of TWIK-1 (SEQ ID No.: 3), TREK-1 (SEQ ID No.: 4), TASK (SEQ ID No.: 5) and TRAAK (SEQ ID No.: 1) which are four channels of the TWIK type presently clones in mammals as well as the deduced dendrogram of this alignment. Identical residues are represented on a black background and the conserved residues are represented on a gray background.